

CITY OF TIGARD, OREGON

ORDINANCE NO. 04- 10

AN ORDINANCE AMENDING CHAPTERS 14.04 AND 14.06 OF THE TIGARD MUNICIPAL CODE

WHEREAS, the City of Tigard has been delegated authority to enforce a statewide model code by the State of Oregon, and;

WHEREAS, the State of Oregon will adopt the International Building Code on October 1, 2004, replacing the existing state code, the Uniform Building Code, via statutory authority, and;

WHEREAS, it is necessary to modify references to the building code that will be in effect, and;

WHEREAS, various Oregon Administrative Rules have been modified as a result of legislation and renumbered.

NOW, THEREFORE, THE CITY OF TIGARD ORDAINS AS FOLLOWS:

SECTION 1: Chapters 14.04 and 14.06 of the Tigard Municipal Code are being amended as shown in Exhibit A.

SECTION : This ordinance shall be effective 30 days after its passage by the Council, signature by the Mayor, and posting by the City Recorder.

PASSED: By unanimous vote of all Council members present after being read by number and title only, this 14th day of September, 2004.

Jane McGarvin
Jane McGarvin, Deputy City Recorder

APPROVED: By Tigard City Council this 14th day of September, 2004.

G. L. D.

Approved as to form:

Timothy V. Kamm
City Attorney

9-14-04
Date

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"Exhibit A"

- * ~~Strikeouts~~ are deleted language
 * Bold underline is revised language

Chapter 14.04 BUILDING CODE.

Sections:

- 14.04.010 Title.
 14.04.020 Definitions.
 14.04.030 State Codes Adopted.
 14.04.040 Administration.
 14.04.050 Repealed By Ord. 96-10.
 14.04.060 Repealed By Ord. 01-25.
 14.04.065 Electrical Program
 Administration.
 14.04.070 Occupancy Restriction
Recordation.
 14.04.090 Violation--Penalty--Remedies.

14.04.010 Title.

This chapter shall be known as the building code ordinance and may also be referred to as "this chapter," or the "building code." (Ord. 86-53 §2(Exhibit A §1), 1986).

14.04.020 Definitions.

For the purpose of Sections 14.04.010 through 14.04.090, the following terms shall mean:

1. Building Official. "Building Official" means the designee or designees appointed by the Director of Community Development who is responsible for building inspections and enforcement of the building code.

2. State Building Code. "State building code" means the combined specialty codes as listed in Section 14.04.030. (Ord. 86-53 §2(Exhibit A §2), 1986).

14.04.030 State Codes Adopted.

1. Except as otherwise provided in this chapter, the following codes, standards and rules are adopted and shall be in force and effect as part of this Municipal Code:

a. Under the authority of ORS 455.150 (effective 9/5/95), the City of Tigard administers those specialty codes and building requirements adopted by the state which the City of Tigard is granted authority to administer, including: the Structural, Mechanical, Plumbing, Electrical and One and Two Family Dwelling Specialty Codes; mobile or manufactured dwelling parks requirements; temporary parks requirements; manufactured dwelling installation, support and tiedown requirements and park or camp requirements (as listed in ORS 455.153);

b. Appendix Chapter A33 J of the ~~1997 Uniform Building Code~~ International Building Code, as published by the International Code Council ~~International Conference of Building Officials~~, regarding Excavation and Grading, including the recognized standards for Appendix Chapter 33 J listed in ~~Part IV of Chapter 35 of the 1997 Uniform Building Code~~ International Building Code;

c. Section 104.2-6.8 of the ~~1997 Uniform Building Code~~ International Building Code, as published by the International Code Council ~~International Conference of Building Officials~~, regarding Liability.

2. At least one copy of each of these specialty codes shall be kept by the Building Official and the Tigard Public Library, and shall be available for inspection upon request. (Ord. 01-25, Ord. 99-04; Ord. 96-10; Ord. 93-04 §1, 1993; Ord. 90-14 §1, 1990).

14.04.040 Administration.

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1. The City shall provide a program of building code administration, including plan review, permit issuing and inspection for structural, electrical, mechanical and plumbing work. The program shall be administered by the Building Official, under the supervision of the Community Development Director. The program shall operate pursuant to the state specialty codes listed in Section 14.04.030 and the remainder of this chapter.

2. Administration and enforcement of Appendix Chapter 33 J, Excavation and Grading, as adopted by Section 14.04.030.1.b., shall be by the Building Official and City Engineer. Where the term "Building Official" is used in Appendix Chapter 33 J, it shall mean either the Building Official or City Engineer.

3. Fees for permits and other related services pursuant to the building code administration program shall be established by resolution of the City Council. (Ord. 99-08; Ord. 96-10; Ord. 95-16; Ord. 93-04 §2, 1993; Ord. 86-53 §2(Exhibit A §4), 1986).

14.04.050 Repealed By Ord. 96-10.

14.04.060 Repealed By Ord. 01-25.

**14.04.065 Electrical Program
Administration.**

1. Permit Required - Except as permitted by OAR 918-261-0000 through ~~0035~~ **0039** - electrical work exempt from permit, Subsection 14.04.065.15 of this section for minor installations, Subsection 14.04.065.16 of this section for temporary electrical permits and Subsection 14.04.065.17 of this section for industrial plant electrical permits, no electrical work shall be performed unless a separate electrical permit for each separate building or structure has first been obtained from the Building Official.

2. Expiration of Permits - Permits shall expire pursuant to OAR 918-309-0000 ~~(6)~~ **(7)**.

3. Validity of Permit - The issuance of a permit or approval of plans, specifications and computations shall not be construed to be a permit for, or an approval of, any violation of any of the provisions of this code or of other ordinances of the jurisdiction. Permits presuming to give authority to violate or cancel the provisions of this code or of other ordinances of the jurisdiction shall not be valid.

The issuance of a permit based upon plans, specifications, computations and other data shall not prevent the Building Official from thereafter requiring the correction of errors in said plans, specifications, and other data or from preventing building operations being carried on thereunder when in violation of this code or of other ordinances of this jurisdiction.

4. Revocation of Permits - The Building Official may, in writing, suspend or revoke a permit issued under the provisions of this chapter whenever the permit is issued in error or on the basis of incorrect information supplied or in violation of other ordinances or regulation of the jurisdiction.

5. Plan Review Requirements - Electrical plan reviews shall be required. Plan review requirements and procedures shall be as stipulated in OAR 918-311-0000 through 0060.

6. Expiration of Plan Review - Applications for which no permit is issued within 180 days following the date of application shall expire by limitation, and plans and other data submitted for review may thereafter be returned to the applicant or destroyed by the Building Official. The Building Official may extend the time for action by the applicant for a period not exceeding 180 days upon request by the applicant.

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showing that circumstances beyond the control of the applicant have prevented action from being taken. No application shall be extended more than once. In order to renew action on an application after expiration, the applicant shall resubmit plans and pay a new plan review fee.

7. Permit Fees - Fees for electrical permits shall be established by resolution of the City Council.

8. Investigation Fees: Work without a Permit.

a. Investigation. Whenever any work for which a permit is required by this code has been commenced without first obtaining said permit, a special investigation shall be made before a permit may be issued for such work.

b. Fee. An investigation fee, in addition to the permit fee, shall be collected whether or not a permit is then or subsequently issued. The investigation fee shall be equal to the amount of the permit fee that would be required by this code if a permit were to be issued. The payment of such investigation fee shall not exempt any person from compliance with all other provisions of this code nor from any penalty prescribed by law.

9. Fee Refunds.

a. The Building Official may authorize the refunding of any fee paid hereunder which was erroneously paid or collected.

b. The Building Official may authorize refunding of not more than 80 percent of the permit fee paid when no work has been done under a permit issued in accordance with this code.

c. The Building Official may authorize refunding of not more than 80 percent of

the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any plan review effort has been expended.

The Building Official shall not authorize refunding of any fee paid except upon written application filed by the original permittee not later than 180 days after the date of fee payment.

10. Right of Entry. When it is necessary to make an inspection to enforce the provisions of this section or when the Building Official has reasonable cause to believe that there exists in a building or upon a premises a condition which is contrary to or in violation of this section which makes the building or premises unsafe, dangerous or hazardous, the Building Official may enter the building or premises at reasonable times to inspect or to perform the duties imposed by this section provided that if such building or premises be occupied that credentials be presented to the occupant and entry requested. If such building or premises be unoccupied, the Building Official shall first make a reasonable effort to locate the owner or other person having charge or control of the building or premises and request entry. If entry is refused, the Building Official shall have recourse to the remedies provided by law to secure entry.

11. Corrections and Stop Orders. When any work is being done contrary to the provisions of this section, the Building Official may order the work corrected or stopped by notice in writing served on any persons engaged in the doing or causing such work to be done, and such persons shall forthwith make the necessary corrections or stop work until authorized by the Building Official to proceed with the work.

12. Authority to Disconnect Utilities in Emergencies. The Building Official or the Building Official's authorized representative shall have the authority to disconnect electrical service

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to a building, structure, premises or equipment regulated by this section in case of emergency where necessary to eliminate an immediate hazard to life or property. The Building Official shall, whenever possible, notify the serving utility, the owner and occupant of the building, structure or premises of the decision to disconnect prior to taking such action, and shall notify such serving utility, owner and occupant of the building, structure or premises in writing of such disconnection immediately thereafter.

13. Authority to Condemn Equipment. When the Building Official ascertains that any equipment, or portion thereof, regulated by this section has become hazardous to life, health or property, the Building Official shall order in writing that the equipment either be removed or restored to a safe or sanitary condition, as appropriate. The written notice shall contain a fixed time limit for compliance with such order. Persons shall not use or maintain defective equipment after receiving a notice.

When equipment or an installation is to be disconnected, written notice of the disconnection and causes therefor shall be given within 24 hours to the serving utility, the owner and occupant of the building, structure or premises. When any equipment is maintained in violation of this section, and in violation of a notice issued pursuant to the provisions of this section, the Building Official shall institute an appropriate action to prevent, restrain, correct or abate the violation.

14. Connection after Order to Disconnect. Persons shall not make connections from an electrical service nor supply electrical power to any equipment regulated by this section which has been disconnected or ordered to be disconnected by the Building Official or the use of which has been ordered to be discontinued by the Building Official until the proper permits have been obtained, inspections approved, and the Building

Official authorizes the reconnection and use of such equipment.

15. Minor Installation Labels - Rules for the use, issuance, and inspection of minor installation labels shall be as stipulated in OAR 918-050-0500 through 0520.

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16. Temporary Electrical Permits - Rules for the use of temporary electrical permits shall be as stipulated in OAR 918-309-0080.

17. Industrial Plant Electrical Permits and Inspection -Rules for the use of industrial plant electrical permits and inspections shall be as stipulated in OAR 918-309-0100. (Ord. 01-25, Ord. 95-16).

14.04.070 Occupancy Restriction Recordation.

An applicant for a building permit for new construction, as a condition for the issuance of the permit, may be required to execute, notarize and deliver to the City a recordable occupancy restriction in the form of Exhibit A-1, attached to the ordinance codified in this chapter. This requirement shall be at the discretion of the Building Official and the Community Development Director. Upon receipt of the occupancy restriction, the Building Official shall record it in the deed records of Washington County. The recording fees shall be charged to the applicant. When the conditions in the occupancy restriction have been satisfied, the restriction shall be released and the occupancy certificate shall be issued. (Ord. 86-53 §2(Exhibit A §7), 1986).

14.04.090 Violation--Penalty--Remedies.

1. No person shall erect, construct, enlarge, alter, repair, move, improve, remove, convert, demolish, equip, occupy or maintain a building or structure in the City, or cause the same to be done contrary to or in violation of this chapter.

2. No person shall install, alter, replace, improve, convert, equip or maintain any mechanical equipment or system in the City, or cause the same to be done contrary to or in violation to this chapter.

3. No person shall install, alter, replace, improve, convert, equip or maintain any plumbing or drainage piping work or any fixture or water heating or treating equipment in the City, or cause the same to be done contrary to or in violation of this chapter.

4. No person shall install, alter, replace, improve, convert, equip or maintain any electrical equipment or system in the City, or cause the same to be done contrary to or in violation of this chapter.

5. Violation of a provision of this chapter constitutes a Class I civil infraction and shall be processed in accordance with the procedures set forth in the civil infractions ordinance, codified in Chapter 1.16 of this code.

6. Each day that a violation of a provision of this chapter exists constitutes a separate violation.

7. Notwithstanding the other remedies in this chapter, if the Building Official determines that any building under construction, mechanical work, electrical work, or plumbing work on any building or any structure poses an immediate threat to the public health, safety or welfare, he may order the work halted and the building or structure vacated pending further action by the City and its legal counsel.

8. The penalties and remedies provided in this section are not exclusive and are in addition to other penalties and remedies available under City ordinance or state statute. (Ord. 95-16; 90-08 §4, 1990). ■

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* Delete in its entirety

Chapter 14.06 SPECIAL INSPECTIONS.

Sections:

- 14.06.010 — Title.
- 14.06.020 — General.
- 14.06.030 — References.
- 14.06.040 — General Procedures.
- 14.06.050 — Duties And Responsibilities.
- 14.06.060 — Inspection Procedures.
- 14.06.070 — Inspection Reports.
- 14.06.080 — Concrete.
- 14.06.090 — Masonry.
- 14.06.100 — Steel.
- 14.06.110 — Fireproofing.
- 14.06.120 — Site Observations.

14.06.010 — Title.

— This chapter shall be known and may be cited as the "special inspection ordinance." (Ord. 90-11 §1(part), 1990).

14.06.020 — General.

— A. These rules are meant to control the conduct and administration of special inspections.

— B. A special inspector performs detailed technical inspections for types of work specified in Section 306-1704 of the 1993-2003 edition of the state Structural Specialty Code, as well as these administrative rules.

— C. All references to the Building Inspector mean the inspector employed by the City of Tigard.

— D. For the purposes of this chapter, "City" means the building division, the section of the City designated to administer and enforce these regulations.

— E. The City of Tigard will accept special inspectors and fabricators who are currently certified by the City of Portland, Oregon. (Ord. 92-04 §5, 1993; Ord. 90-11 §1(part), 1990).

14.06.030 — References.

— Reference is made to Section 306-Chapter 17 of the state Structural Specialty Code. (Ord. 90-11 §1(part), 1990).

14.06.040 — General Procedures.

— A. Special Inspector Approval. Prior to obtaining any building permits, the owner or their agent shall submit to the Building Official, on forms provided by the Building Official, the following information:

- 1. The project name and address;
- 2. The architect of record;
- 3. The engineer of record;
- 4. The special inspections required;
- 5. The name of the firm(s) to provide the special inspectors, their address, and phone numbers;
- 6. The names, qualifications and certifications of the special inspectors to be assigned to the project;
- 7. The signature of the owner or agent, their firm name, address, phone number, and the date signed.

— B. Preconstruction Meeting. Prior to the issuance of building permits, the owner and/or their agent, engineer/architect of record, contractor, special inspector, and City representatives shall meet to review a schedule of inspections, the duties and responsibilities of the

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parties, and when applicable, to ascertain whether the fabrication plants to be used on the project are currently certified by an approved certification program.

~~C. Notification to the City. It is the responsibility of the special inspector and contractor to notify the City of all scheduled inspections prior to commencement of work and shall include the following information:~~

- ~~1. Building permit number;~~
- ~~2. Project address;~~
- ~~3. Type of inspection;~~
- ~~4. When the inspection will start.~~

~~D. Emergency notification. Field problems requiring immediate action by the City shall be reported by calling the City, and then by following up with an inspection report.~~

~~E. Notice to Contractor. Prior to the commencement of any work, the special inspector will verify that the permit drawings at the site have a City of Tigard approval stamp.~~

~~F. Notice to Special Inspector.~~

~~1. It is the duty of the person doing the work requiring inspection to notify both the special inspector and the City inspector that the work is ready for inspection either orally or in writing. The City requires that such requests for inspection be made at least one working day in advance of the inspection.~~

~~2. It is the duty of the person requesting inspection to provide both access to and the means for proper inspection. (Ord. 90-11 §1(part), 1990).~~

14.06.050 ~~Duties And Responsibilities.~~

~~A. Authorization.~~

~~1. No inspections shall be made unless the special inspector and/or inspection/testing agency have received authorization in writing from the City.~~

~~2. No inspections shall be made unless the special inspector has been approved for that particular type of inspection activity by the City.~~

~~B. Conflict of Interest.~~

~~1. Special inspectors shall not inspect work performed, or materials supplied by a contractor, subcontractor or material vendor with or for whom the inspector is employed.~~

~~2. During the prosecution of the work inspectors shall not undertake or engage in any task or occupation which would tend to interfere with the proper performance of their required duties of inspection.~~

~~C. Duties of Special Inspectors. Special inspectors are subject to any rules that the City deems appropriate, including, but not limited to, the following:~~

~~1. Special inspectors employed on any work shall be present during the prosecution of all work they have been authorized to inspect.~~

~~2. They shall report to the job sufficiently in advance of construction to familiarize themselves with the plans, inspect all materials to be used or concealed within such work, and review with the contractor the special inspection procedures contained in these rules.~~

~~3. They shall inspect third party testing, listing, construction, erection, placing or other use of such materials.~~

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~~4. They shall inspect for compliance with the City approved plans and specifications as to all of the requirements contained in this section.~~

~~5. They shall properly notify the City of structural design changes and record such deviations in their reports.~~

~~6. They are responsible for bringing to the attention of the contractor, and for recording and reporting to the architect and engineer of record, the owner, and the City, any deviations from the City approved plans and specifications. Approval of any deviations should be obtained by the special inspector directly from the architect/engineer of record. The name of the person approving any deviations and a description of the deviations shall be recorded in the inspection report.~~

~~7. Performance of the duties enumerated in this section are to be done in accordance with the provisions of these rules. Failure to comply can result in the revocation of the authority to perform special inspection and any and all the affected work may be stopped until such time as the extent of noncompliance with the code has been verified by the City and the stop work order is lifted. (Ord. 90 11 §1(part), 1990).~~

14.06.060 — Inspection Procedures.

~~A. All special inspectors should maintain a notebook containing all applicable code sections of the state building code, City of Tigard building code, these rules and such other applicable codes and information relating to proper inspection.~~

~~B. Prior to inspection, the special inspector shall perform the following:~~

~~1. Check that the contractor has obtained the approved building permit, and check that the plans and specifications bear the City approved stamp;~~

~~2. Check that the work desired to be inspected is included in the description of work to be done as shown on the building permit application;~~

~~3. Check that previously required inspections have been made, and immediately notify the building department of any construction performed when the special inspector was not present or work for which approvals have not been recorded;~~

~~4. Go over the schedule of required inspections with the contractor. Questions such as the extent of inspections and types of testing should be clarified at this time. (Ord. 90 11 §1(part), 1990).~~

14.06.070 — Inspection Reports.

~~A. General. Handwritten Field Reports.~~

~~1. So that the Building Inspector can determine whether a special inspector has completed an inspection and has approved the work, one copy of the handwritten field report shall be left at the job site, at the completion of each inspection visit. The contractor is responsible for maintaining these reports in a file at the job site which is readily accessible to all interested parties. The special inspector shall send copies of these reports to the architect and engineer of record, the owner, the contractor, and the City.~~

~~2. The special inspector shall send copies of the material test reports to the architect and engineer of record, the owner, the contractor and the City.~~

~~B. Minimum Requirements. All reports must provide the following minimum information:~~

~~1. Job Address. The job address as it~~

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appears on the approved building permit;

_____ 2. ~~Time Started and Completed Inspection.~~ Identify the "extent" of the inspection; i.e., periodic or continuous;

_____ 3. ~~Permit Number.~~ There is sometimes more than one permit issued during the construction of large projects (i.e., foundation and superstructure under separate permits).

_____ 4. ~~Location of Inspection.~~ For field inspections, pinpoint exact location of inspection using grid lines, floor numbers, or other applicable identification.

_____ 5. ~~Identification of Materials and Methods of Construction.~~ Adequately identify materials and note the methods of construction; erection, placement or other use of the materials. Describe specific items that were inspected (use piece marks or other specific identification when available).

_____ 6. ~~Testing Data.~~ Identify and document results of all material testing, treatment certificates, nondestructive testing, load test, sampling, welding qualifications, or other test being utilized.

_____ 7. ~~Conformance Statement.~~ State whether the work requiring special inspections was either in conformance or not in conformance with City approved plans, specifications, applicable workmanship provisions of the state building code and related standards. Identify and document any structural design changes approved by the architect or engineer of record.

_____ 8. ~~Other Information.~~ In addition to the minimum requirements listed in this section, the special inspectors may also be required to provide other information which shall be done as directed by the City or by the architect/engineer of record.

_____ 9. ~~Substitutions and Deviations.~~ All substitutions of materials or other deviations from approved permit plans and applicable codes shall be immediately reported to the contractor for correction and to the architect/engineer and the City. All nonconforming items shall be fully identified on the reports.

_____ 10. ~~Name, affiliation, and registration when applicable of special inspector.~~

_____ 11. ~~List of individuals/firms receiving copies of the reports.~~

_____ C. ~~Frequency of Reports.~~

_____ 1. ~~One report for each day that the special inspector performs special inspection.~~

_____ 2. ~~When requested by the City, an interim report outlining the degree of completion and compliance of the work and recording all deviations from the approved plans.~~

_____ 3. ~~Final summary report of compliance at completion of each category of work, such as masonry, reinforced concrete, piling, etc.~~

_____ In general, work requiring special inspections shall be approved by the special inspector and the Building Inspector, in compliance with Sections 305 and 306 of the state building code. Generally, the Building Inspector will not approve the work unless a handwritten field report has been left at the job site, or unless the special inspector has made an appropriate notation on the inspection record card. (Ord. 90-11 §1(part), 1990).

14.06.080 Concrete.

_____ A. ~~Inspection shall be continuous during the taking of test specimens, placing of concrete, placing of reinforcing steel, placing of tendons~~

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~~and prestressing steel, during all stressing and grouting of prestressed concrete.~~

~~B. Exceptions:~~

~~1. See state building code Section 306;~~

~~2. Special inspection for the fabrication process may be waived by the Building Official when the work is performed on the premises of a fabricator certified and approved by the City for precast concrete or prestressed concrete.~~

~~C. When plant special inspection is required, inspection shall be continuous during the batching operation.~~

~~D. When a prestressed concrete inspection is required, a minimum of two inspectors shall be present during the placement of concrete. One inspector shall monitor the concrete pump truck and one shall monitor the placement of the concrete.~~

~~E. Duties of the inspector include:~~

~~1. Familiarity with approved concrete mix designs. Mix designs shall be proportioned according to the state building code, Section 2604. The contractor shall submit the concrete mix designs to the engineer of record for approval as well as to the City.~~

~~2. Ascertain in the field or plant (whichever is applicable) that the materials used in the mix conform to the quality and quantity specified. This shall include checking:~~

~~a. Type and quantity of cement (field and plant);~~

~~b. Grading, type, and quantity of fine and coarse aggregate (plant only);~~

~~c. Source and quantity of water (plant only);~~

~~d. Type and quantity of additives (field and plant);~~

~~e. Moisture content of the aggregate (plant only);~~

~~f. Review mill test reports for cement and aggregate (plant only).~~

~~When requested by the City the concrete plant shall note the type and quantity of all materials on the first truck load ticket of each pour (each day). All succeeding tickets on the pour shall state the quantity of cement and water as well as the type and quantity of admixture.~~

~~3. Verify that all batch plant equipment is operating properly. The scales shall be "zeroed" and all pertinent meter readings should be noted (plant inspection only).~~

~~4. Become familiar with test approvals and/or manufacturer's recommendations for all additives. All additives shall be approved by the architect/engineer of record.~~

~~5. Conduct, or observe and supervise sampling of the mix for tests as called for in the project plans and specifications such as slump, temperature, entrained air, compression test cylinders, etc. Samples shall be taken after water has been added. When water has been added to the concrete in the field, the quantity of water added shall be noted in the reports.~~

~~6. Ascertain that the reinforcing materials have been placed as called for in the approved plans and specifications. This shall include checking:~~

~~a. Grade, size, quantity, and spacing of reinforcing steel;~~

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~~b. Location of reinforcing materials in the forms;~~

~~c. Type and location of splicing and length of contact laps of reinforcing steel;~~

~~d. Support and anchorage of reinforcing steel in the forms.~~

~~7. Ascertain that the method of conveying, placing and compacting the concrete forms to the approved plans and specifications and all the provisions of the state code and related standards.~~

~~8. The inspector shall verify that construction procedures and workmanship are in accordance with the approved plans and specifications.~~

~~9. Ascertain that all structural embedments in the forms conform to the approved plans and specifications in regard to fabrication, location, quantity and location. (Ord. 90-11 §1(part), 1990).~~

14.06.090 — Masonry.

~~A. Inspection shall be continuous during the preparation of masonry wall prisms, sampling and placing of all masonry units, placement of reinforcement, inspection of grout space immediately prior to closing of cleanouts and during all grouting operations.~~

~~B. Exceptions.~~

~~1. Special inspection need not be provided when design stresses have been adjusted to permit noncontinuous inspection. See state building code Section 2406(C)(1).~~

~~2. Partial or noncontinuous special inspection may be allowed when approved by the City.~~

~~3. Special inspection for the fabrication process may be waived by the Building Official when the work is performed on the premises of a fabricator certified and approved by the City for precast masonry.~~

~~C. Except when permitted by Section 2405 of the state building code, prism testing is required prior to and during construction. Testing shall be as prescribed by Section 2405(c) of the state building code.~~

~~D. Duties of the inspector shall include, but are not limited to:~~

~~1. Conducting or observing and supervising all tests required by the specifications, this code, or the City.~~

~~2. Observing the sampling and laying of masonry units and see that reinforcement is placed and spliced in accordance with the approved plans and that all work complies with the requirements of this code.~~

~~3. Verifying that construction procedures and workmanship are in accordance with the approved plans and specifications and to the provisions of the state building code and other applicable standards.~~

~~4. Verifying that grouting limitations are not exceeded and cleanouts are provided as required by Table No. 24-G of the state building code.~~

~~5. Familiarity with approved grout and mortar mix designs. Mix designs shall be proportioned according to Sections 2403 of the state building code. The contractor shall submit the grout and mortar mix designs to the engineer of record for approval, as well as to the City.~~

~~6. Ascertaining that the masonry materials conform to the quality and quantity~~

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specified. This shall include checking:

- ~~_____ a. Type and quantity of cement;~~
- ~~_____ b. Grading, type and quantity of aggregate (when required by the City);~~
- ~~_____ c. Source and quantity of water (when required by the City);~~
- ~~_____ d. Type and quantity of additives;~~
- ~~_____ e. Storage methods. (Ord. 93-04 §§7, 8, 1993; Ord. 90-11 §1(part), 1990).~~

14.06.100 Steel.

~~_____ A. The special inspector shall be present during the fabrication and erection of structural steel members, miscellaneous iron, and assemblies and during the welding of reinforcing steel.~~

~~_____ B. Exception. Special inspection for the fabrication process may be waived by the Director when the work is performed on the premises of a fabricator certified and approved by the City as an approved steel fabricator.~~

~~_____ C. Prior to commencement of any fabrication and/or erection, the contractor shall notify the inspector that such work is ready to begin.~~

~~_____ D. For the purposes of special inspections, structural steel includes fabrication and erection for, but not limited to, the following:~~

- ~~_____ 1. Structural steel and other steel or metal items defined in Sections 2.1 and 2.2 of the AISC Code of Standard Practice;~~
- ~~_____ 2. Other welded components of metal~~

~~connectors intended for wood to wood (erection only) or wood to concrete connections;~~

~~_____ 3. Miscellaneous welding, i.e., (but not limited to) erection of steel stairs and landings, welding to steel wall studs, erection of curtain walls, etc.~~

~~_____ E. Duties of the inspector shall include, but not be limited to:~~

~~_____ 1. Reviewing mill test reports and seeing that the structural steel is in compliance with the specified codes and the applicable standards and supervision of such tests as may be required by the City;~~

~~_____ 2. Verification of the steel identification markings for conformity with the plans, specifications and applicable standards;~~

~~_____ 3. Checking steel members to see that they are fabricated and erected according to the workmanship and tolerances required by the applicable standards and codes;~~

~~_____ 4. The inspector shall see that bolts, welded studs, and structural connections are installed as shown on the approved plans and specifications. Inspections of high strength bolting shall be in accordance with the state code Section 306(a)(6) of the state building code, and other applicable standards;~~

~~_____ 5. Regularly appraise the quality of welds produced by welders, welding operators, and tackers before, during and after the welding is performed;~~

~~_____ 6. Review the contractor's welding procedures and shall verify that welders and welding operators are currently certified in accordance with AWS standards and of these rules. The inspector shall note on his report the name(s) of the individual(s) (and certification number) performing the welding;~~

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~~7. Oversee the inspection and testing of the structural welds. When nondestructive testing other than visual is to be required, it is to be so stated in the plans and specifications. This information shall designate the welds to be tested; the extent of testing of each weld and the method of testing. (Ord. 94-03 §9, 1993; Ord. 90-11 §1(part), 1990).~~

~~14.06.110 Fireproofing.~~

~~A. Responsibilities.~~

~~1. Authorization. Inspections of spray-applied fireproofing shall be made only by an inspection/testing agency approved by the City.~~

~~2. Fireproofing Thickness Schedule and Plans.~~

~~a. The owner's agent shall submit a fireproofing thickness schedule and plans to the architect/engineer and the City for approval. The schedule and plans shall be approved by the architect/engineer prior to submittal to the City.~~

~~b. The schedule includes the manufacturer's recommendations and test approvals, identification of the type of material being used, the required density and the specified thickness for designated primary and secondary members.~~

~~c. The plans shall clearly identify the primary, secondary, bracing or other framing elements to receive spray-applied fireproofing.~~

~~d. Areas that have been inspected and approved shall be marked on the approved plans.~~

~~3. Preconstruction Conference. The contractor shall hold a meeting with the fireproofing subcontractor, City representatives,~~

~~and the special inspector for the purpose of determining the scope and methods of inspection and responsibility for "follow-up" inspections including patching of damaged and weathered areas. The fireproofing schedule and approved plans must be submitted, approved by the architect/engineer and City, and thereafter be kept on the job site prior to this meeting.~~

~~B. Inspection/Treating Procedures for spray-applied Fireproofing. All inspection and test procedures shall be based on Uniform Building Code Standard 43-8.~~

~~1. General. Verify that all inspections of structural steel members and connections have been completed and final or interim summary compliance reports have been accepted by the City before fireproofing application is started.~~

~~2. The fireproofing materials shall have been checked to determine conformance to the approved fireproofing schedule and erection drawings.~~

~~C. Reports. The special inspector shall promptly report the results of their inspections in writing as outlined by Section 14.06.070 of this chapter. (Ord. 90-11 §1(part), 1990).~~

~~14.06.120 Site observations.~~

~~A. Objective.~~

~~1. To define the scope of requirements and responsibilities of the engineer of record (EOR) for engineering site observations, when required by the City, according to the provisions of Section 306(a)(14), "Special Cases," of the state building code.~~

~~2. These requirements and responsibilities are not the same as those of special inspectors for reinforced concrete, structural masonry, structural steel, sprayed-on~~

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~~fireproofing, etc., as set out in this chapter. "Engineer of record" as used in this chapter is meant to include the engineer or architect (or his authorized representative) that has been responsible for the structural design.~~

~~— B. References. Reference is made to Section 306(a)(14), "Special Cases," of the state building code.~~

~~— C. Definition.~~

~~—— 1. Engineering site observation means the observation of the construction to observe general compliance with the approved permit documents as well as design and planning concepts. It does not include responsibility for the inspection or superintendence of construction processes, site conditions, operations, equipment, personnel, or the maintenance of a safe place to work or any safety in, on, or about the site work.~~

~~—— 2. Such observation is not to be relied upon by others as a guarantee of the work, nor to be construed to relieve the contractor of its obligations and responsibilities under the construction contract, approved permit documents, and applicable workmanship provisions of the state building code and other standards.~~

~~— D. General. According to the provisions contained in Section 306(a)(14), "Special Cases," the City may require that the owner employ a special inspector during construction of work which involves special cases. It should be noted that this may be in addition to the requirement for a special inspector as per Section 306(a)(1) through (13) (i.e., reinforced concrete, structural masonry, etc.).~~

~~— Because of possible uncertainties in existing construction, or because of the uniqueness of certain projects, the only person most qualified to observe the general progress, verify design~~

~~assumptions and then to take appropriate action to provide for public safety, is the EOR.~~

~~— E. Duties and responsibilities. The general inspection report procedures of these administrative rules, are also required of the EOR. At the conclusion of the work the EOR shall submit a letter indicating that the work was observed to have been performed in general compliance with the approved permit documents and design assumptions.~~

~~— The specific scope of the site observations are outlined in the permit documents as required by the City and are reviewed at the preconstruction conferences. Monitoring of construction does not necessarily have to be "continuous" but should be performed on a regular basis so that close interaction and coordination exists between the EOR, the contractor, the inspection/testing agency (where applicable) and the City. The City may require the EOR to submit a proposal for the anticipated frequency of observations.~~

~~— The EOR shall monitor the inspection/testing agency's special inspections. This should not be construed to relieve the inspection/testing agency of its obligations according to Title 24, but is intended to assist the City in the monitoring of the quality control provisions for the project.~~

~~— The EOR and special inspector should meet on a regular basis to review the progress of the work and the quality control provisions of the project and to discuss the pending inspections. The EOR should be available, as required, for professional consultation. The EOR shall review and evaluate the special inspector's inspection and their test reports. In cases of unfavorable reports, the EOR should initiate prompt action with appropriate parties to seek their resolution. (Ord. 93-04 §10, 1993; Ord. 90-11 §1(part), 1990). ■~~